



Name: _____
 Mr. Tiénou-Gustafson & Mr. Biellemeier
 Geometry, Period _____
 Due Date: Tue, 31 Mar 2015


HW130_QuadrilateralTestReview

**Geometry
Homework**

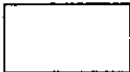
For the questions below, draw the shapes & label the relevant information. (Ex: for #1, mark congruent sides.)

1. Which of the following have all sides congruent?


Drawing →

I. Square 

Drawing →

II. Rectangle 

Drawing →

III. Rhombus 

- A. I
 B. I and II only
 C. I and III only
~~D. None of the above~~
 E. All of the above

2. Which of the following parallelograms have congruent diagonals?


I. Square →


II. Rectangle →

III. Rhombus →

- A. I only
 B. I and II only
 C. I and III only
~~D. None of the above~~
 E. All of the above

3. Tell if the statement is always true, sometimes true, or never true. (Don't forget to sketch the shapes!)

A trapezoid is a parallelogram. 

The bases of a trapezoid are parallel. 

The base angles of an isosceles trapezoid are congruent.

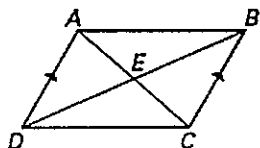
The legs of a trapezoid are congruent.

4. Name & ~~sketch ALL~~ quadrilaterals – parallelogram, rectangle, rhombus & square – for which the statement is true.

- a. The diagonals bisect each other. ~~parallelogram~~
 b. Opposite sides are congruent. *parallelogram, rhombus, square, rectangle*
 c. It is equiangular and equilateral.
 d. The diagonals bisect opposite angles.
 e. The diagonals are perpendicular.
 f. It is equiangular. *Rectangle + square*

5. **Multiple Choice** Which additional piece of information do you need to prove $ABCD$ is a parallelogram?

- ☐ A $\overline{AB} \cong \overline{DC}$
☐ B $\overline{AD} \cong \overline{BC}$
☒ C $\overline{AB} \parallel \overline{DC}$
☐ D A or B



6. Which statement is true? (~~Sketch an example or counterexample~~)

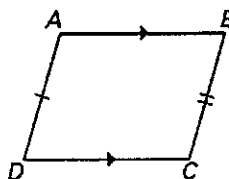
- A. All parallelograms are rhombuses
 B. All quadrilaterals are parallelograms
 C. All quadrilaterals are squares
 D. All rectangles are parallelograms

7. Which of the following statements is NOT true about parallelograms?

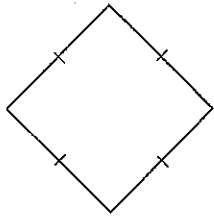
- a. consecutive angles are congruent
 b. opposite sides are congruent
 c. opposite angles are congruent
 d. the diagonals bisect each other

8. **Multiple Choice** What kind of quadrilateral would meet the conditions of the diagram?
 $ABCD$ is not drawn to scale.

- ☐ A kite
☒ B rhombus
☐ C trapezoid
☐ D square
☐ E parallelogram



~~X~~ Judging by appearance, classify the figure in as many ways as possible.



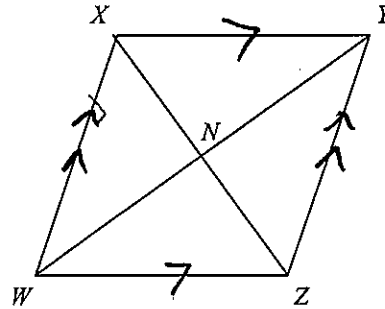
- A rectangle, square, quadrilateral, parallelogram, rhombus
- B rectangle, square, parallelogram
- C rhombus, trapezoid, quadrilateral, square
- D square, rectangle, quadrilateral

11. Which of the following quadrilaterals have diagonals that are perpendicular? (*sketch diagonals*)

- I. Parallelogram
- II. Rhombus
- III. Square
- IV. Kite

- A. I
- B. II and III only
- C. II, III, and IV
- D. II and IV only
- ~~E. All of the above~~

10. WXYZ is a parallelogram. Name an angle congruent to $\angle WZY$.



- A $\angle ZXY$ B $\angle XWZ$ C $\angle ZXW$ D $\angle WXY$

12. Which of the following quadrilateral is a parallelogram?

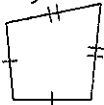
- I. Rhombus
- II. Square
- III. Rectangle
- IV. Trapezoid

- ~~A. I~~
- B. II and III
- ~~C. I and III~~
- D. I, II, and III
- E. All of above

13) Which statement is true?

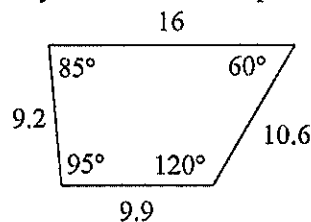
- A. All parallelograms are squares.
- B. All squares are parallelograms
- C. All quadrilaterals are parallelograms
- D. All kites are trapezoids

15) State the most specific name the figure.

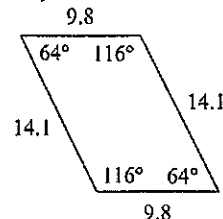


- A) kite B) trapezoid
- C) quadrilateral D) isosceles trapezoid

14) State the most specific name the figure.



16) State the most specific name the figure.



Do you have 100% on the area & perimeter formulas quiz? ____ If not, which do you need to practice?
(Circle all that apply: Parallelogram, rectangle, rhombus, square, isosceles trapezoid, and kite).
What's your plan to study for them?